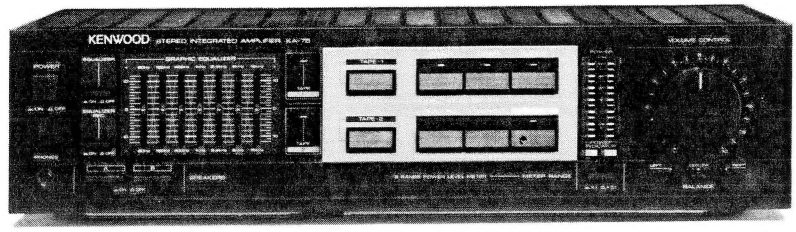


SPECIFICATIONS

Power Amplifier Section

Power Output

80 watts* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion

Both Channels Driven into
- **8 ohms at 1,000 Hz** . . . . . 85 W + 85 W (Except U.S.A., Europe and U.K.)
- **4 ohms at 1,000 Hz** . . . . . 78 W + 78 W (Except U.S.A., Europe and U.K.)

Music Power Output (8 ohms) . . . . . 145 W + 145 W (Except U.S.A., Europe and U.K.)

Total Harmonic Distortion
- **AUX → SPKR (8 Ω)/ Power in → SPKR (8 Ω) (20 Hz to 20,000 Hz)**
  - **At Rated Output** 0.09%
  - **At 1/2 Rated Output** 0.05%
- **(1,000 Hz)**
  - **At 1/2 Rated Output** 0.005%
- **Phono → SPKR (8 Ω)/ At −20 dB Volume Level (1,000 Hz)**
  - **At Rated Output** 0.04%

Intermodulation Distortion (60 Hz : 7,000 Hz = 4 : 1)
- **At Rated Output** . . . . . 0.02% into 8 ohms

Damping Factor . . . . . 30 (50 Hz)

Frequency Response
- **Overall (AUX → SPKR)** . . . . . 10 Hz to 70,000 Hz, +0 dB, −3 dB
- **Phono "RIAA" Response (Phono → REC out)** . . . . . 30 Hz to 20 Hz, ±0.5 dB

Power Bandwidth . . . . . 10 Hz to 50,000 Hz 0.2% T.H.D. 8 ohms

Input Sensitivity/Impedance
- **Phono MM** . . . . . 2.5 mV/ 47 k ohms
- **Tuner, AUX., Tape Play** . . . . . 150 mV/ 33 k ohms

Signal-to-Noise Ratio (IHF-A)
- **Phono MM** . . . . . 75 dB at 2.5 mV
- **Phono MM** . . . . . 81 dB at 5.0 mV
- **Tuner, AUX., Tape Play** . . . . . 100 dB

Phono Maximum Input Level
- **MM** . . . . . 150 mV (Phono to Tape REC), 0.05% T.H.D. at 1,000 Hz

Output Level/Impedance
- **Tape REC (Pin)** . . . . . 150 mV/ 330 ohms

Tone Control
- **60 Hz, 150 Hz, 400 Hz, 1,000 Hz, 2,400 Hz, 6,000 Hz, 15,000 Hz** . . . . . ±10 dB

Filter
- **Subsonic** . . . . . 60 Hz, 6 dB/ oct

Loudness Control
- **At −30 dB Volume Level** . . . . . +8 dB at 100 Hz

General

Power Supply Voltage, Frequency . . . 120 V, 60 Hz (U.S.A. and Canada models), 220 V, 50 Hz (Europe model), 240 V, 50 Hz (U.K. model), 110 ~ 120 V/ 220 ~ 240 V, 50/ 60 Hz (Other countries)

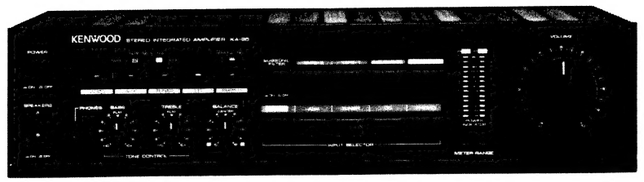
Power Consumption . . . . . 2.5 A (U.S.A. and Canada models), 170 W (Other countries)

AC Outlet
- **Switched** . . . . . 100 W
- **Unswitched** . . . . . 100 W

Dimensions . . . . . W 420 mm H 109 mm D 282 mm

Weight
- **Net** . . . . . 6.6 kg
- **Gross** . . . . . 7.4 kg

*Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A



SPECIFICATION

(IHF'66)

Except European and U.K. Models

Power Amplifier Section

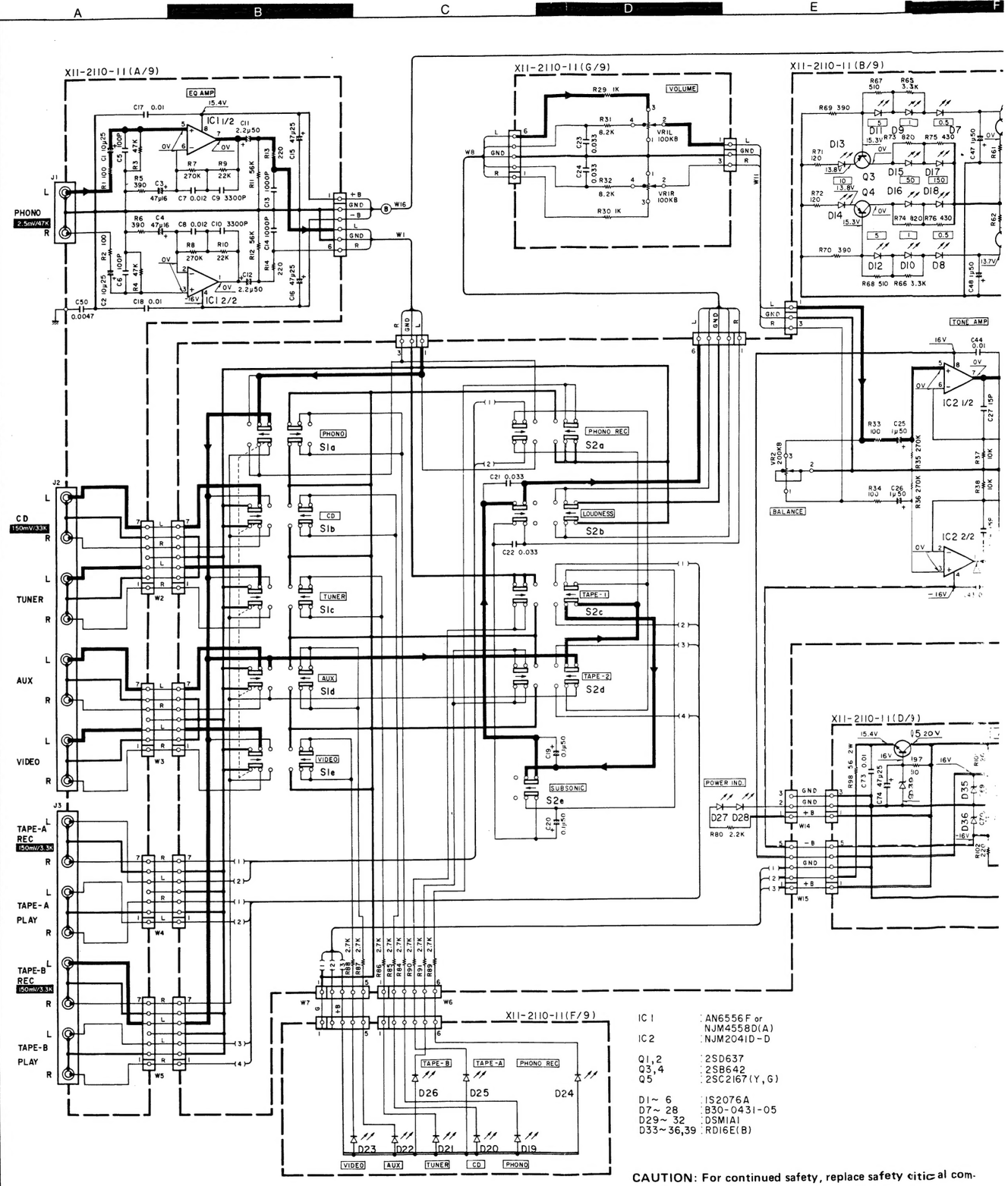
Rated Power Output

125 watts per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.05% total harmonic distortion

Both Channels Driven into 8 ohms at 1 kHz	125 W + 125 W (Except USA, Europe and U.K.)
Total Harmonic Distortion (AUX→SPKR 8 Ω)	
at Rated Output, 20 Hz ~ 20,000 Hz	0.05%
at 1/2 Rated Output, 20 Hz ~ 20,000 Hz	0.02%
at 1/2Rated Output, 1 kHz	0.007%
(PHONO→SPKR 8 Ω : at −20 dB VOLUME Level)	
at Rated Output, 1 kHz	0.02%
Intermodulation Distortion (60 Hz:7 kHz = 4:1)	0.02% at rated power into 8 ohms
Damping Factor	20 (1,000 Hz into 8 ohms)
Frequency Response	10 Hz to 100 kHz, +0 dB, −3 dB
Input Sensitivity/Impedance	
Phono MM	2.5 mV/47 k ohms
TUNER, AUX., TAPE PLAY	150 mV/33 k ohms
Signal-to-Noise Ratio (IHF-A)	
Phono MM	73 dB for 2.5 mV input
Phono MM	79 dB for 5.0 mV input
TUNER, AUX., TAPE PLAY	100 dB
Maximum Input Level for Phono MM	140 mV (RMS), T.H.D. 0.05% at 1 kHz
Output Level/Impedance	
TAPE REC (Pin)	150 mV/3.3 k ohms
Frequency Response for Phono	RIAA standard curve ±0.3 dB (30 Hz to 20,000 Hz)
Tone Control	
Bass	±10 dB at 100 Hz
Treble	±8 dB at 10 kHz
Loudness Control (at −30 dB VOLUME Level)	+8 dB at 100 Hz
Subsonic Filter	18 Hz, 6 dB/oct.

General

Power Consumption	4.1 A (USA and Canada : UL and CSA) 230 W (Others)
AC Outlets	Switched 2, Unswitched 1 (Except some countries)
Dimensions	W: 420 mm (16-9/16″) H: 109 mm (4-5/16″) D: 280 mm (11″)
Weight (Net)	8.5 kg (18.7 lb)

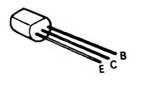


IC 1	AN6556F or NJM4558D(A)
IC2	NJM2041D-D
Q1,2	2SD637
Q3,4	2SB642
Q5	2SC2167(Y,G)
D1~ 6	IS2076A
D7~ 28	B30-0431-05
D29~ 32	DSM1A1
D33~36,39	RD16E(B)

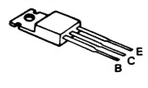
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance

E F G H I J K L M N O

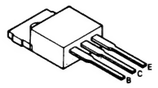
2SA1123
2SA733 (A)
2SA954
2SA992
2SA999
2SC2003
2SC2320
2SC2631
2SC945 (A)



2SA1111
2SC2591

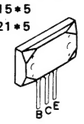


2SC2167

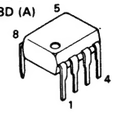


2SB642
2SD637

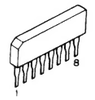
2SA1215 • 5
2SC2921 • 5



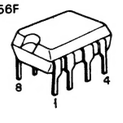
NJM2041D-D
NJM4558D (A)



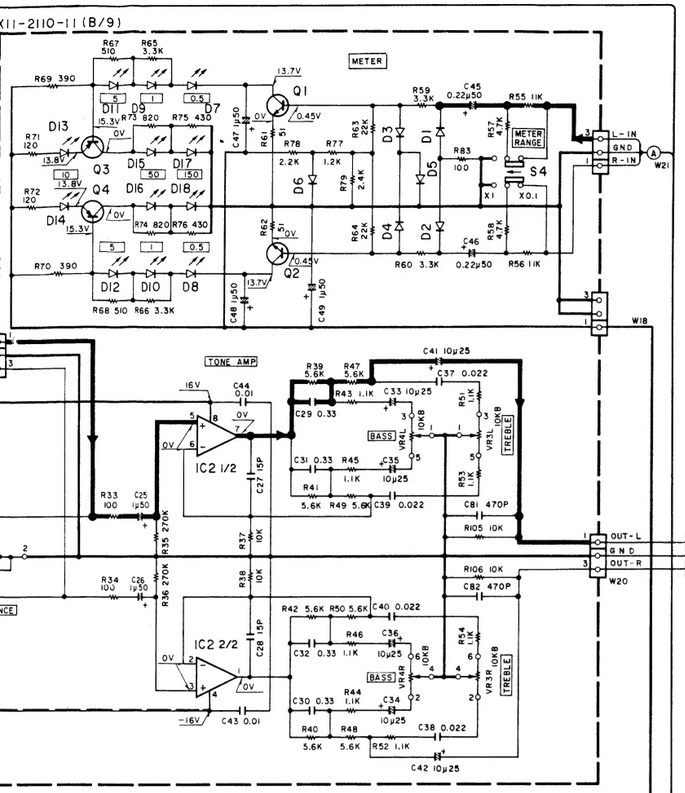
μPC1237H

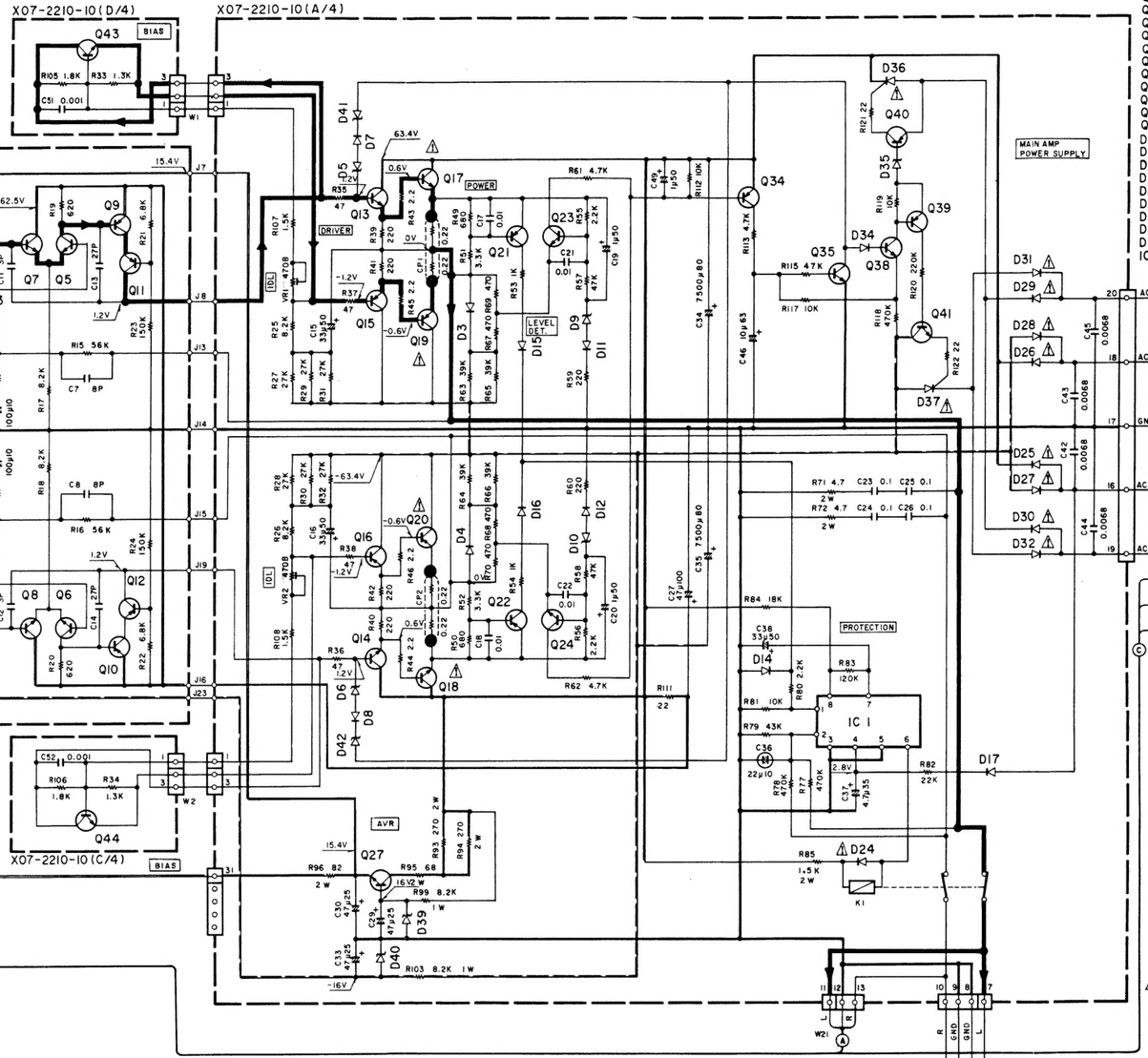


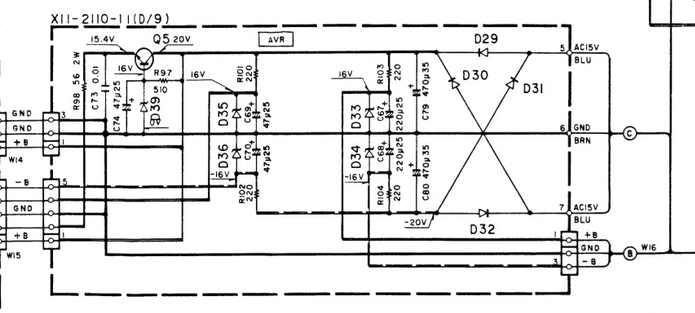
AN6556F

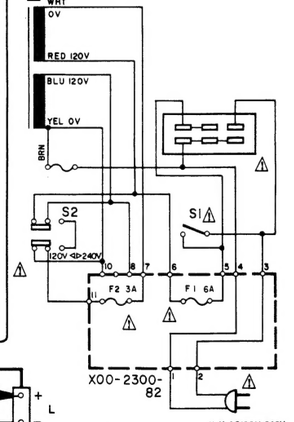


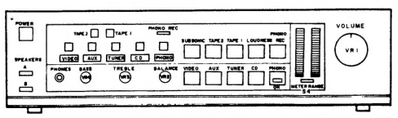
Q1~8,35,38,43,44 : 2SC945(A)(Q,P) or 2SC2320(E,F)
Q9,10 : 2SA733(A)(Q,P) or 2SA999(E,F)
Q11,12 : 2SA1123(Q,R)
Q13,14 : 2SC2591(Q,R)
Q15,16 : 2SA1111(Q,R)
Q17,18 : 2SC2921 X 5
Q19,20 : 2SA1215 X 5
Q21,22,34,39 : 2SA992(F,E)
Q23,24 : 2SC2631(Q,R)
Q27 : 2SC2167(Y,G)
Q40 : 2SA945(L,K)
Q41 : 2SC2003(L,K)
D3,4 : IS2076 or ISI555 or ISSI33
D5,6,41,42 : RDI8E(B)
D7,8,11,12,14~16,34 : IS2076A
D9,10 : RD8.2E(B)
DI7,24 : DSMIAI
D25~32 : S3V20
D35 : RD24E(B)
D36,37 : TF620M
D39,40 : RDI6E(B)
IC1 : μPCI237H

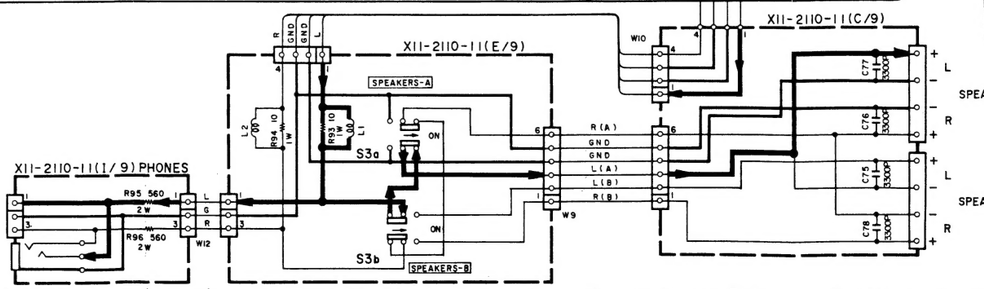












KA-95(K)

afety, replace safety critical com-
urer's recommended parts (refer
es safety critical components. To
ock, leakage-current or resistance

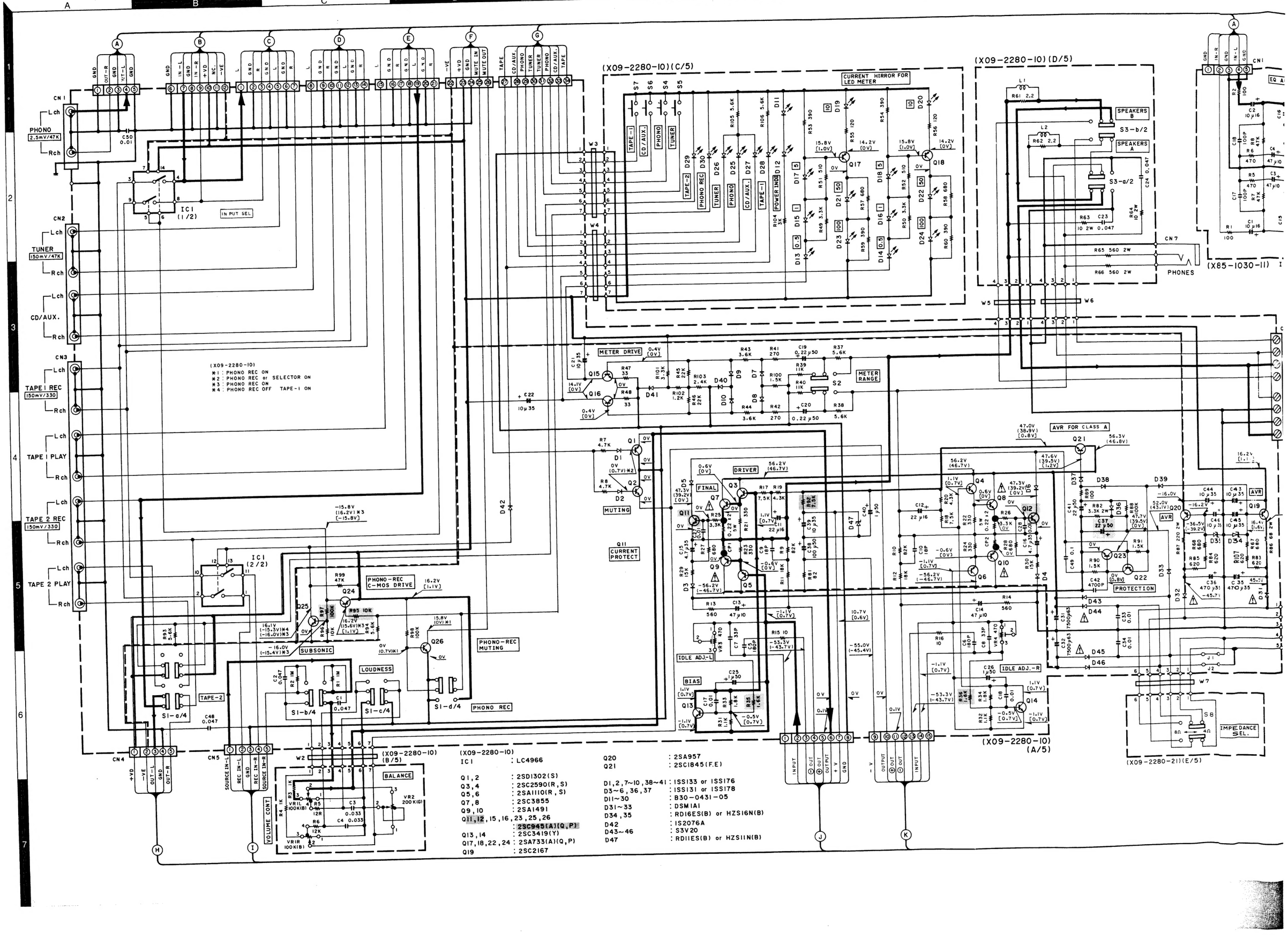
measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanden die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

KA-95
KENWOOD


(X09-2280-10)(C/5)
(X09-2280-10)(D/5)
CURRENT MIRROR FOR LED METER
SPEAKERS B
SPEAKERS A
S3-b/2
S3-a/2
CN7
PHONES
(X85-1030-11)
CN1
EQ A
PHONO 2.5mV/47K
TUNER 150mV/47K
CD/AUX.
TAPE 1 REC 150mV/330
TAPE 1 PLAY
TAPE 2 REC 150mV/330
TAPE 2 PLAY
IC1 (1/2)
IC1 (2/2)
IN PUT SEL
(X09-2280-10)
*1 : PHONO REC ON
*2 : PHONO REC or SELECTOR ON
*3 : PHONO REC ON
*4 : PHONO REC OFF TAPE-1 ON
METER DRIVE
METER RANGE
MUTING
Q11 CURRENT PROTECT
DRIVER
FINAL
BIAS
IDLE ADJ.-L
IDLE ADJ.-R
AVR FOR CLASS A
AVR
PROTECTION
PHONO-REC C-MOS DRIVE
PHONO-REC MUTING
PHONO REC
SUBSONIC
LOUDNESS
TAPE-2
VOLUME CONT
BALANCE
IMPEDANCE SEL.
(X09-2280-10) (A/5)
(X09-2280-10) (B/5)
(X09-2280-21)(E/5)
IC1 : LC4966
Q1,2 : 2SD1302(S)
Q3,4 : 2SC2590(R,S)
Q5,6 : 2SA1110(R,S)
Q7,8 : 2SC3855
Q9,10 : 2SA1491
Q11,12,15,16,23,25,26 : 2SC945(A)(Q,P)
Q13,14 : 2SC3419(Y)
Q17,18,22,24 : 2SA733(A)(Q,P)
Q19 : 2SC2167
Q20 : 2SA957
Q21 : 2SC1845(F,E)
D1,2,7~10,38~41 : ISS133 or ISS176
D3~6,36,37 : ISS131 or ISS178
D11~30 : B30-0431-05
D31~33 : DSM1A1
D34,35 : RD16ES(B) or HZS16N(B)
D42 : IS2076A
D43~46 : S3V20
D47 : RD11ES(B) or HZS11N(B)

(X85-1030-11) IC1: AN6556 or M5218P

SWITCH UNIT (X13-5350-10)
IC1 : LC7816
Q1 : 2SA733(A)(Q)
D1~10 : MA156
D11, 12 : 1SS133

(X00-2390-81)

(X00-2392-71)

(X00-2391-01)

(X09-2280-21)(E/5)

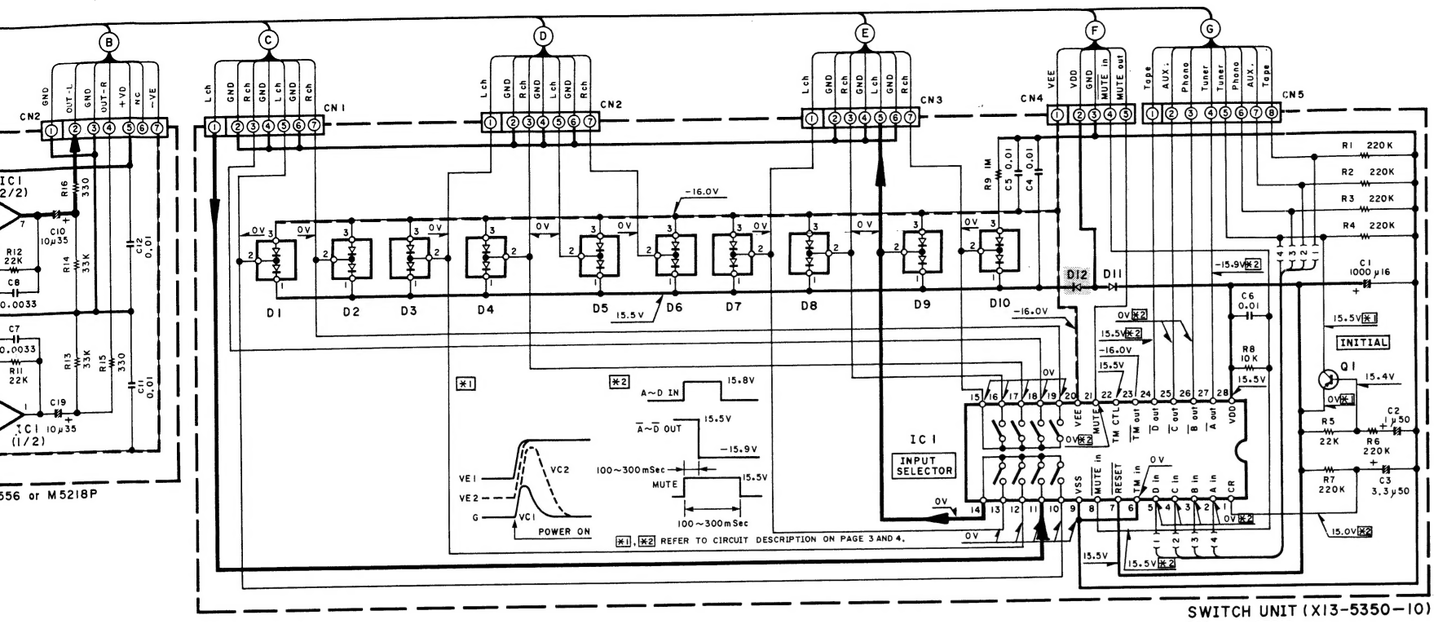
(X09-2280-10)		
NO.	K, P	M, U, UE
CODE	0-10	0-21
J1, 2	YES	NO
W7	NO	YES
S8	NO	YES

TONE UNIT(X11-2250-10)
IC1, 2 : M5229P

Change
(X09-2280-10)
C37 : 22μ50 ⟶ 4.7μ63(NP)
R35, 36 : 1.6K ⟶ 1.3K
R92 : 7.5K ⟶ 3.3K
R95 : 10K ⟶ 1K
R97 : 100K ⟶ 10K
Q11, 12 : 2SC945(A,KQ,P) ⟶ 2SC1845(F,E)

Change
(X13-5350-10)
D12 : 1SS133 ⟶ JAMPER

(X85-1040-10)
Q1~4 : 2SA992(F,E)
Q5~8 : 2SC1845(F,E)



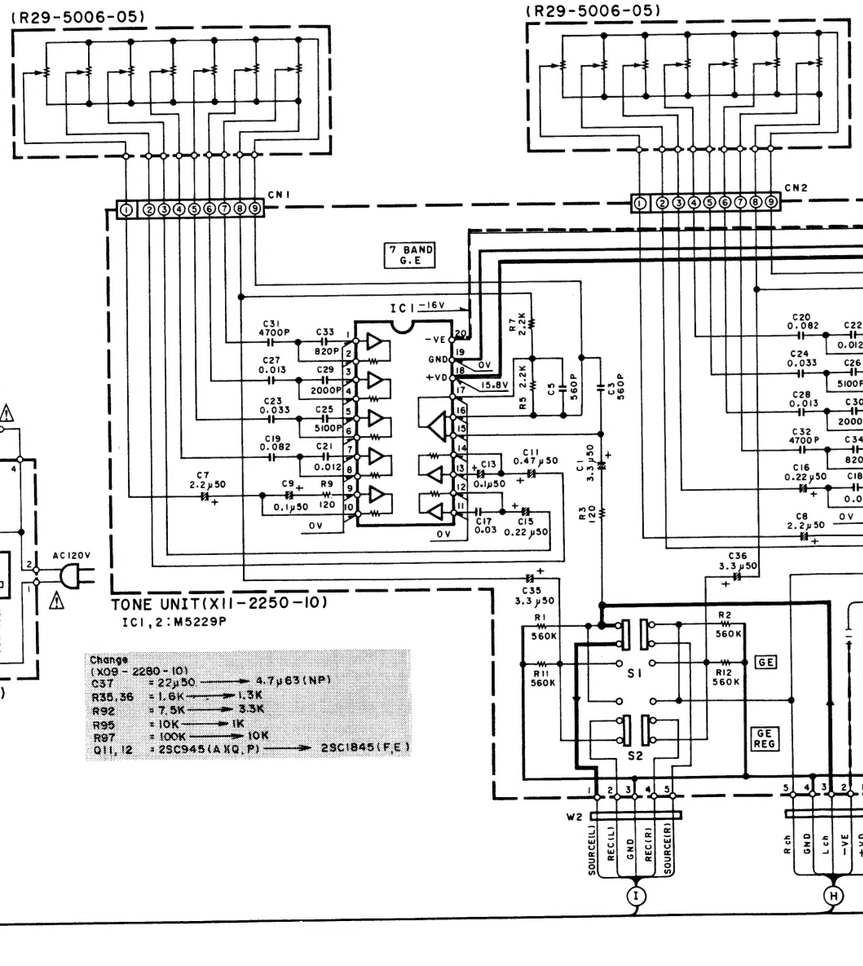
SWITCH UNIT (X13-5350-10)

IC1 : LC7816
Q1 : 2SA733(A)(Q)
D1~10 : MA156
D11, 12 : 1SS133

Change
(X13-5350-10)
D12 : 1SS133 ——→ JAMPER

(R29-5006-05)

(R29-5006-05)

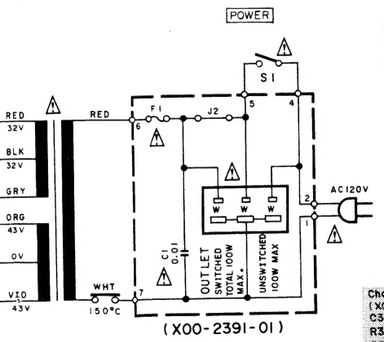


Change
(X09-2280-10)

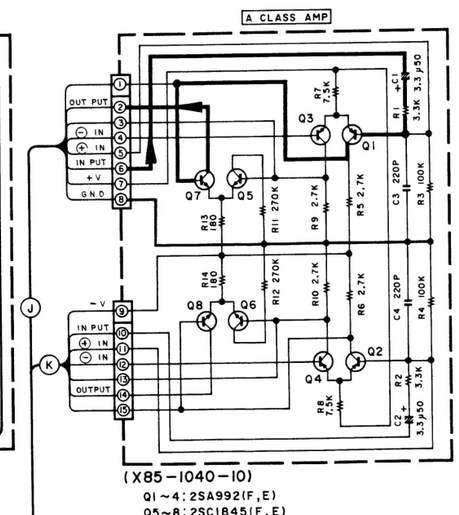
C37	= 22μ50 ——→ 4.7μ63(NP)
R35,36	= 1.6K ——→ 1.3K
R92	= 7.5K ——→ 3.3K
R95	= 10K ——→ 1K
R97	= 100K ——→ 10K
Q11, 12	= 2SC945(A)(Q, P) ——→ 2SC1845(F,E)

(X09-2280-10)

K, P	M,U,UE
0~10	0~21
YES	NO
NO	YES
NO	YES



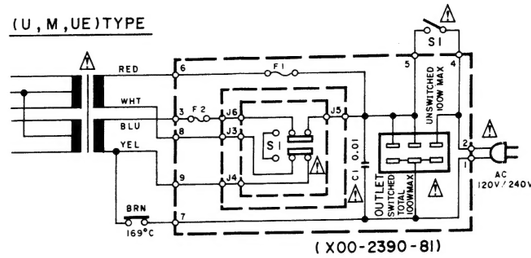
(X00-2391-01)



(X85-1040-10)

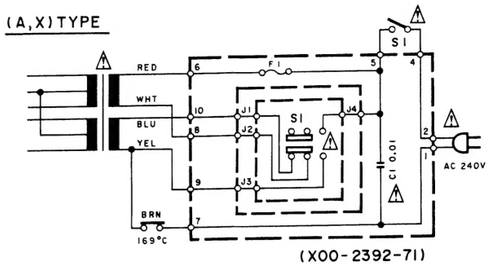
Q1~4 : 2SA992(F,E)
Q5~8 : 2SC1845(F,E)

(U,M,UE)TYPE



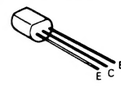
(X00-2390-81)

(A,X)TYPE

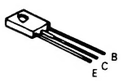


(X00-2392-71)

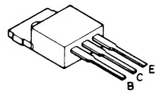
2SA733(A) 2SC945(A)
2SA992 2SD1302
2SC1845



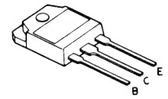
2SA1110
2SC2590



2SA957
2SC2167

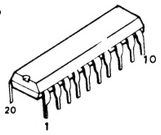


2SA1491
2SC3855

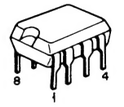


2SC3419

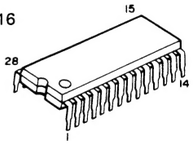
M5229P



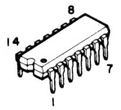
AN6556
M5218P



LC7816



LC4966



CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

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KENWOOD